

10/817,454

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 09:19:42 ON 06 DEC 2007

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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0.21

FILE 'REGISTRY' ENTERED AT 09:20:09 ON 06 DEC 2007

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DICTIONARY FILE UPDATES: 5 DEC 2007 HIGHEST RN 956828-07-2

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Uploading c:\program files\stnexp\queries\10817454.2

L1 STRUCTURE UPLOADED

=> d 12

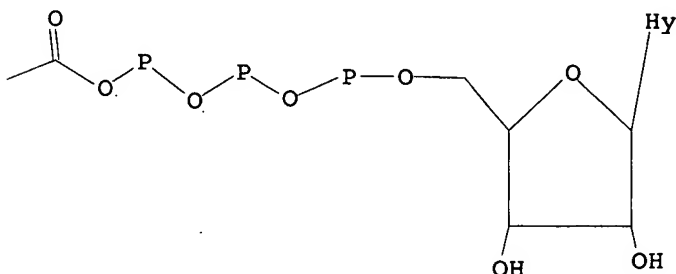
L2 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d 11

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full
FULL SEARCH INITIATED 09:21:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5376 TO ITERATE

100.0% PROCESSED 5376 ITERATIONS 26 ANSWERS
SEARCH TIME: 00.00.01

L2 26 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 172.55 172.76

FILE 'CAPLUS' ENTERED AT 09:21:32 ON 06 DEC 2007
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FILE COVERS 1907 - 6 Dec 2007 VOL 147 ISS 24
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=> s l2
L3 8 L2

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 8 DUP REM L3 (0 DUPLICATES REMOVED)

=> d l4 bib abs hitstr 1-8

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2007:713329 CAPLUS
DN 147:272100
TI Probing Adenosine Nucleotide-Binding Proteins with an Affinity-Labeled Nucleotide Probe and Mass Spectrometry
AU Qiu, Haibo; Wang, Yinsheng
CS Department of Chemistry, University of California, Riverside, CA, 92521-0403, USA
SO Analytical Chemistry (Washington, DC, United States) (2007), 79(15), 5547-5556
CODEN: ANCHAM; ISSN: 0003-2700
PB American Chemical Society
DT Journal
LA English
AB Mass spectrometry combined with chemical labeling strategies has become very

important in biol. anal. Herein, the authors described the application of a biotin-conjugated acyl nucleotide for probing adenosine nucleotide-binding proteins. The authors demonstrated that the probe reacted specifically with the lysine residue at the nucleotide-binding site of two purified adenosine nucleotide-binding proteins, Escherichia coli recombinase A (RecA) and Saccharomyces cerevisiae alc. dehydrogenase-I (YADH-I). A single conjugate peptide with a specifically labeled lysine residue was identified, by using LC-MS/MS, from the tryptic digestion mixture of the reaction products of the nucleotide analog with RecA or YADH-I. The strategy, which involved labeling reaction, enzymic digestion, affinity purification, and LC-MS/MS anal., was relatively simple, fast, and straightforward. The method should be generally applicable for the identification of lysine residues at the nucleotide-binding site of other proteins. The biotin-conjugated acyl nucleotide probe also allowed for the enrichment and identification of nucleotide-binding proteins from complex protein mixts.; the authors showed that more than 50 adenosine nucleotide-binding proteins could be identified from the whole-cell lysates of HeLa-S3 and WM-266-4 cells.

IT 946568-67-8P

RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)

(probing adenosine nucleotide-binding proteins with affinity-labeled nucleotide probe and mass spectrometry)

RN 946568-67-8 CAPLUS

CN β -Alanine, N-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]-, P''-anhydride with adenosine 5'-(tetrahydrogen triphosphate), compd. with N,N-dibutyl-1-butanamine (1:3) (CA INDEX NAME)

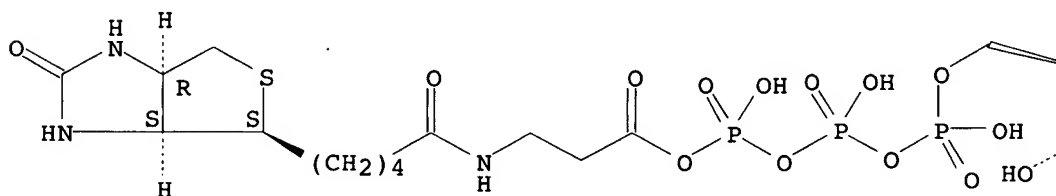
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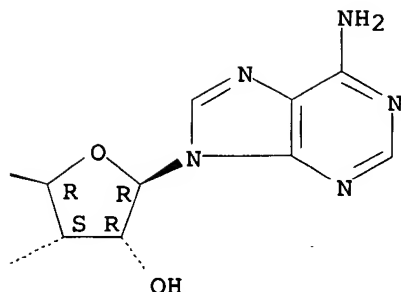
CRN 946568-66-7

CMF C23 H35 N8 O16 P3 S

Absolute stereochemistry.

PAGE 1-A

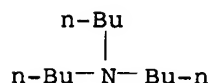




CM 2

CRN 102-82-9

CMF C12 H27 N



RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:1291702 CAPLUS

DN 146:200721

TI Microarray-Based Kinase Inhibition Assay by Gold Nanoparticle Probes

AU Sun, Linlin; Liu, Dianjun; Wang, Zhenxin

CS State Key Laboratory of Electroanalytical Chemistry, Changchun Institute
of Applied Chemistry, Chinese Academy of Sciences, Changchun, 130022,
Peop. Rep. China

SO Analytical Chemistry (2007), 79(2), 773-777

CODEN: ANCHAM; ISSN: 0003-2700

PB American Chemical Society

DT Journal

LA English

AB We report on the development of a new class of kinase microarray for the
detection of kinase inhibition based on marking peptide
phosphorylation/biotinylation events by attachment of gold nanoparticles
followed by silver deposition for signal enhancement. The
 α -catalytic subunit of cAMP-dependent protein kinase (PKA), and its
well-known substrate, kemptide, were used for the purpose of monitoring
phosphorylation and inhibition. As expected, highly selective inhibition
of PKA is demonstrated with the four inhibitors: H89, HA1077, mallotoxin,
and KN62. Furthermore, an inhibition assay demonstrates the ability to
detect kinase inhibition as well as derive IC50 (half-maximal inhibitory
concentration) plots.

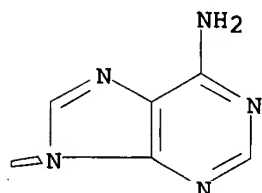
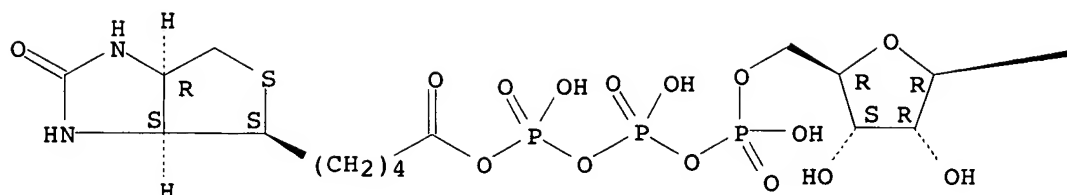
IT 773149-42-1

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(microarray-based cAMP-dependent protein kinase inhibition assay by
gold nanoparticle probes)

RN 773149-42-1 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with
(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid
(CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:1328942 CAPLUS
DN 146:246363

TI Functional Interrogation of the Kinome Using Nucleotide Acyl Phosphates
AU Patricelli, Matthew P.; Szardenings, A. Katrin; Liyanage, Marek;
Nomanbhoy, Tyzoon K.; Wu, Min; Weissig, Helge; Aban, Arwin; Chun, Doris;
Tanner, Stephen; Kozarich, John W.

CS ActivX Biosciences, La Jolla, CA, 92037, USA

SO Biochemistry (2007), 46(2), 350-358

CODEN: BICHAW; ISSN: 0006-2960

PB American Chemical Society

DT Journal

LA English

AB The central role of protein kinases in signal transduction pathways has generated intense interest in targeting these enzymes for a wide range of therapeutic indications. Here we report a method for identifying and quantifying protein kinases in any biol. sample or tissue from any species. The procedure relies on acyl phosphate-containing nucleotides, prepared from a biotin derivative and ATP or ADP. The acyl phosphate probes react selectively and covalently at the ATP binding sites of at least 75% of the known human protein kinases. Biotinylated peptide fragments from labeled proteomes are captured and then sequenced and identified using a mass spectrometry-based anal. platform to determine the kinases present and their relative levels. Further, direct competition between the probes and inhibitors can be assessed to determine inhibitor potency and selectivity against native protein kinases, as well as hundreds of other ATPases. The ability to broadly profile kinase activities in native proteomes offers an exciting prospect for both target discovery and inhibitor selectivity profiling.

IT 773149-44-3P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);

BIOL (Biological study); PREP (Preparation)

(broad profiling of protein kinases using nucleotide acyl phosphates)

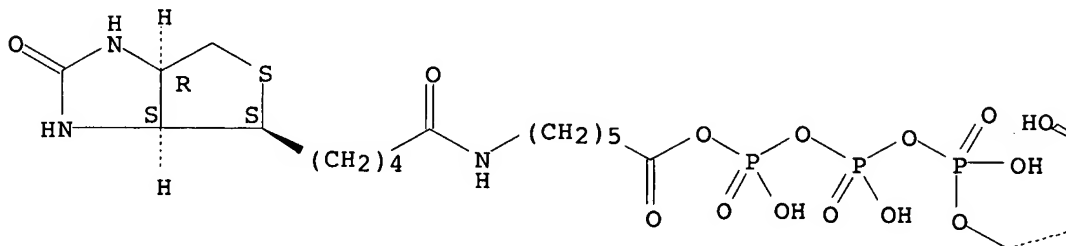
RN 773149-44-3 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with

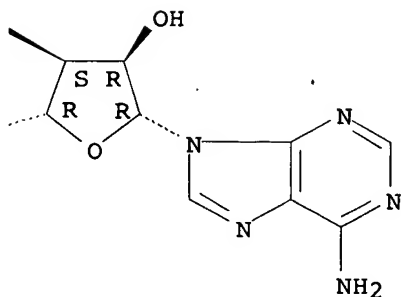
6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



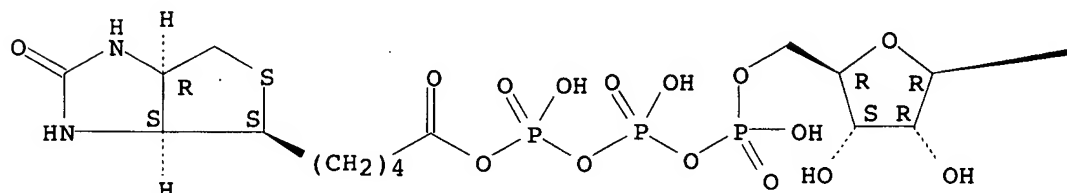
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:87234 CAPLUS
DN 144:345596
TI Kinase-Catalyzed Modification of Gold Nanoparticles: A New Approach to
Colorimetric Kinase Activity Screening
AU Wang, Zhenxin; Levy, Raphael; Fernig, David G.; Brust, Mathias
CS Centre for Nanoscale Science, Department of Chemistry and School of
Biological Sciences, The University of Liverpool, Liverpool, L69 7ZD, UK
SO Journal of the American Chemical Society (2006), 128(7), 2214-2215
CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
AB Peptide-stabilized gold nanoparticles have been enzymically biotinylated
by a kinase-catalyzed reaction using biotin-ATP as a cosubstrate. Upon
mixing with avidin-modified particles, solns. of biotinylated particles
change color from red to blue, indicating aggregation of particles. On
the basis of this reaction, we have developed a simple colorimetric test
to monitor kinase inhibitor activity.
IT 773149-42-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(new approach to colorimetric kinase activity screening using
avidin-modified gold nanoparticles)

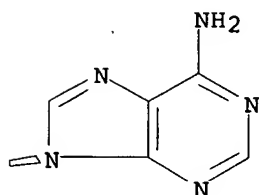
RN 773149-42-1 CAPLUS
 CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with
 (3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid
 (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



RE.CNT 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 2004:878499 CAPLUS
 DN 141:328168
 TI Acyl-phosphate probes, methods for their synthesis, and their use in
 protein labeling
 IN Campbell, David Alan; Liyanage, Marek; Szardenings, Anna Katrin; Wu, Min
 PA Activ Biosciences, Inc., USA
 SO PCT Int. Appl., 117 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004090154	A2	20041021	WO 2004-US10075	20040401
	WO 2004090154	A3	20050506		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW:	BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2004227362	A1	20041021	AU 2004-227362	20040401

CA 2521130	A1	20041021	CA 2004-2521130	20040401
US 2005043507	A1	20050224	US 2004-817454	20040401
EP 1616034	A2	20060118	EP 2004-758736	20040401
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR				
JP 2006526010	T	20061116	JP 2006-509592	20040401
PRAI US 2003-459797P	P	20030401		
WO 2004-US10075	A	20040401		

OS MARPAT 141:328168

AB The present invention provides tagged acyl phosphate probes ('TAPPs'), and methods of their preparation and use. The subject methods and compns. can provide enhanced simplicity and accuracy in identifying changes in the presence, amount, or activity of target proteins in a complex protein mixture, preferably nucleotide binding proteins using nucleotide binding protein-directed TAPPs. The profiling methods described herein can have a number of steps leading to the identification of target nucleotide binding protein(s) in a complex protein mixture. Thus, 32 different nucleotides labeled via a phosphate group with fluorophores or biotin were synthesized. These were used to label protein mixts. Labeled nucleotide-binding proteins were isolated by affinity chromatog. and identified by mass spectrometry.

IT 773149-43-2P 773149-45-4P 773149-47-6P
773149-49-8P 773149-63-6P 773149-70-5P
773149-71-6P 773149-73-8P 773149-75-0P
773149-79-4P

RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
BIOL (Biological study); PREP (Preparation)
(acyl-phosphate probes, methods for their synthesis, and their use in protein labeling)

RN 773149-43-2 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with (3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

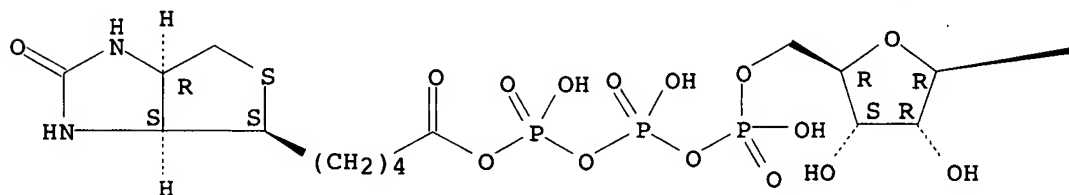
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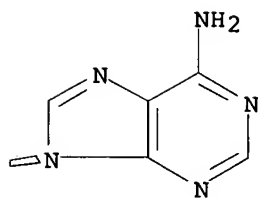
CRN 773149-42-1

CMF C20 H30 N7 O15 P3 S

Absolute stereochemistry.

PAGE 1-A

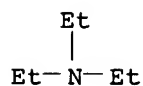




CM 2

CRN 121-44-8

CMF C6 H15 N



RN 773149-45-4 CAPLUS

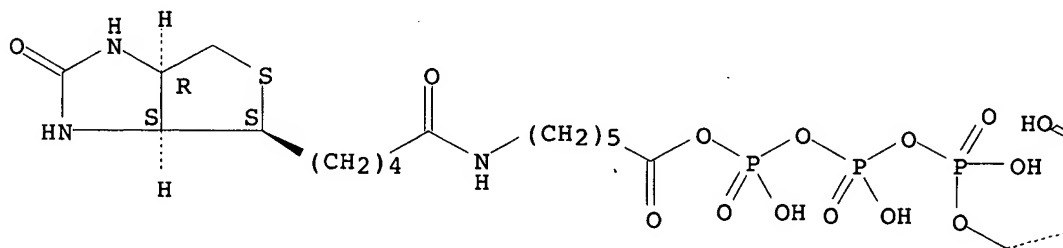
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

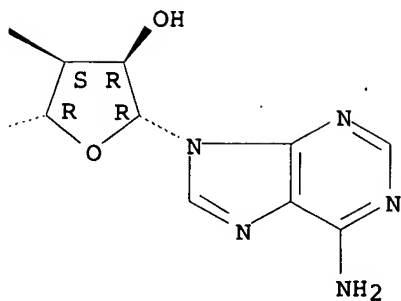
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CMF C26 H41 N8 O16 P3 S

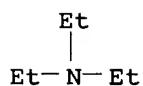
Absolute stereochemistry.





CM 2

CRN 121-44-8
CMF C6 H15 N

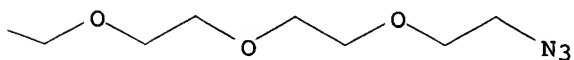
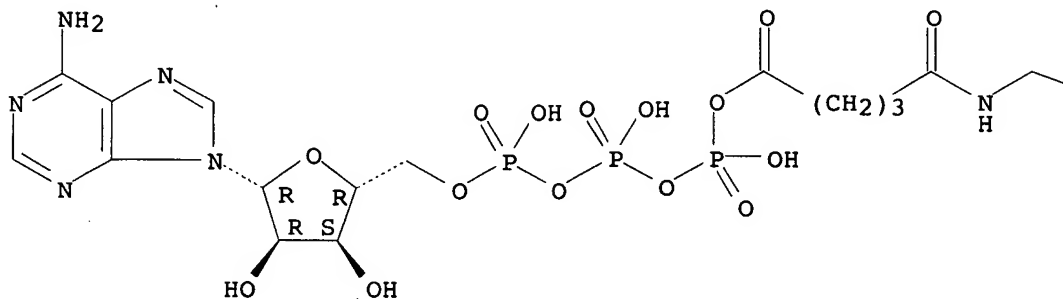


RN 773149-47-6 CAPLUS
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with
1-azido-13-oxo-3,6,9-trioxa-12-azaheptadecan-17-oic acid, compd. with
N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

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CRN 773149-46-5
CMF C23 H38 N9 O18 P3

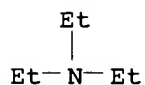
Absolute stereochemistry.



CM 2

CRN 121-44-8

CMF C6 H15 N



RN 773149-49-8 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with
21-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-17-oxo-
4,7,10,13-tetraoxa-16-azaheneicosanoic acid, compd. with
N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

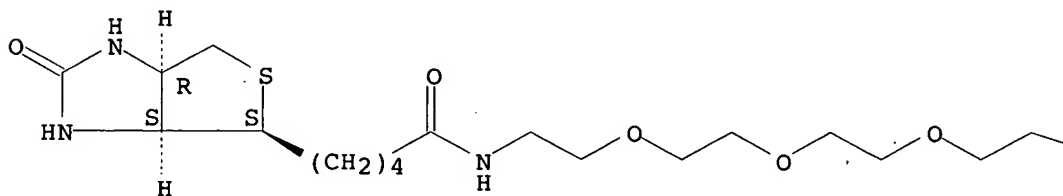
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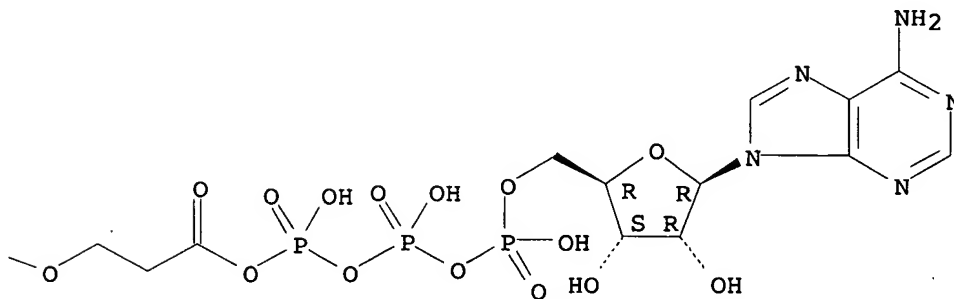
CMF C31 H51 N8 O20 P3 S

Absolute stereochemistry.

PAGE 1-A



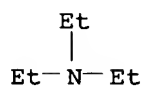
PAGE 1-B



CM 2

CRN 121-44-8

CMF C6 H15 N



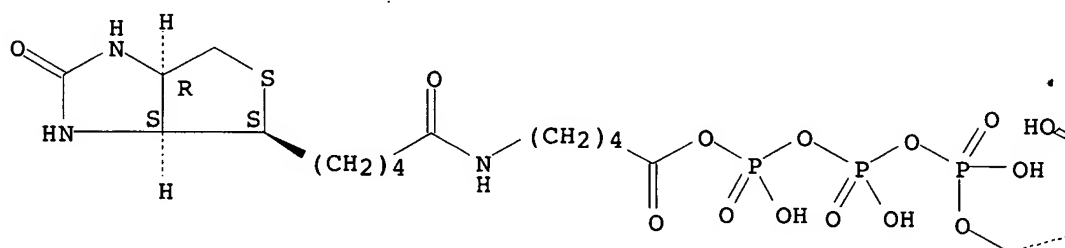
RN 773149-63-6 CAPLUS
 CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with
 5-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]pentanoic acid, compd. with N,N-diethylethanamine (1:2)
 (9CI) (CA INDEX NAME)

CM 1

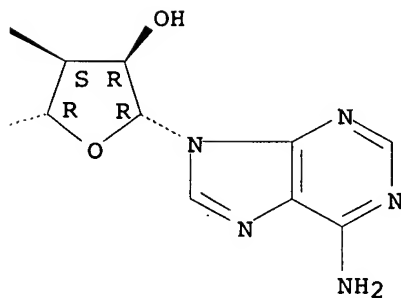
CRN 773149-62-5
 CMF C25 H39 N8 O16 P3 S

Absolute stereochemistry.

PAGE 1-A

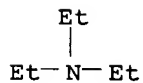


PAGE 1-B



CM 2

CRN 121-44-8
 CMF C6 H15 N



RN 773149-70-5 CAPLUS

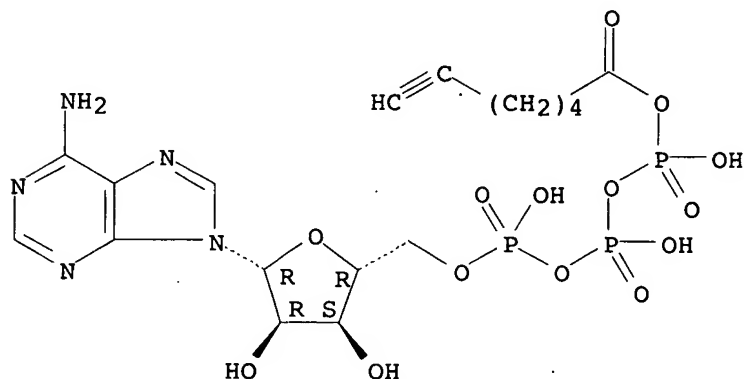
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 6-heptynoic acid, compd. with N,N-diethylethanamine (1:2) (9CI) (CA INDEX NAME)

CM 1

CRN 773149-69-2

CMF C17 H24 N5 O14 P3

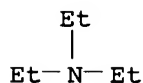
Absolute stereochemistry.



CM 2

CRN 121-44-8

CMF C6 H15 N

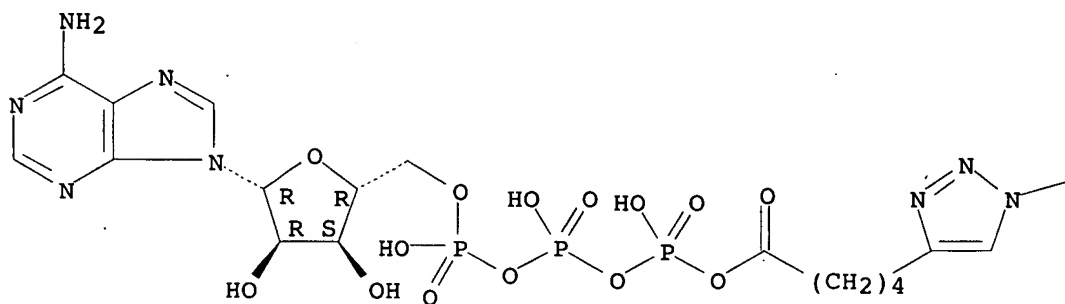


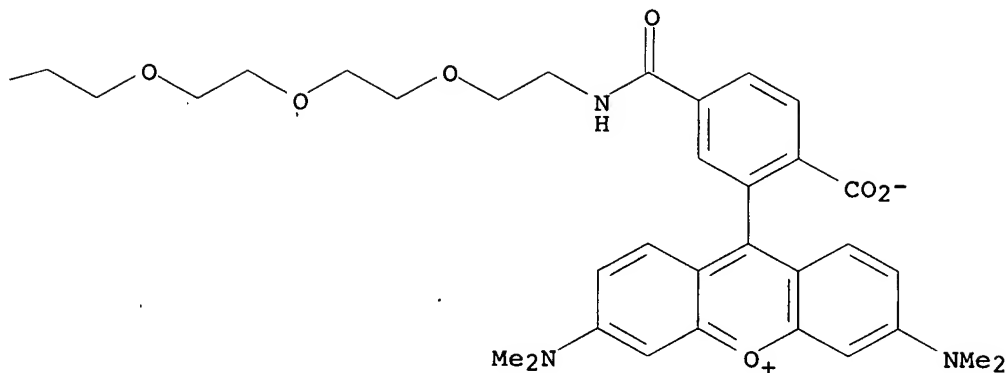
RN 773149-71-6 CAPLUS

CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with 9-[2-carboxy-5-[13-[4-(4-carboxybutyl)-1H-1,2,3-triazol-1-yl]-1-oxo-5,8,11-trioxa-2-azatridec-1-yl]phenyl]-3,6-bis(dimethylamino)xanthylum inner salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



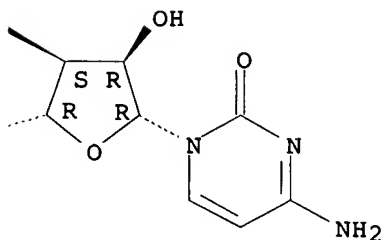
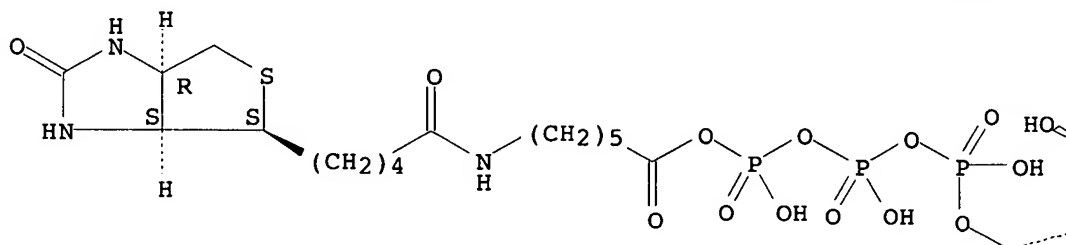


RN 773149-73-8 CAPLUS
 CN Cytidine 5'-(tetrahydrogen triphosphate), P''-anhydride with
 6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3)
 (9CI) (CA INDEX NAME)

CM 1

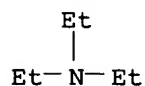
CRN 773149-72-7
 CMF C25 H41 N6 O17 P3 S

Absolute stereochemistry.



CM 2

CRN 121-44-8
CMF C6 H15 N



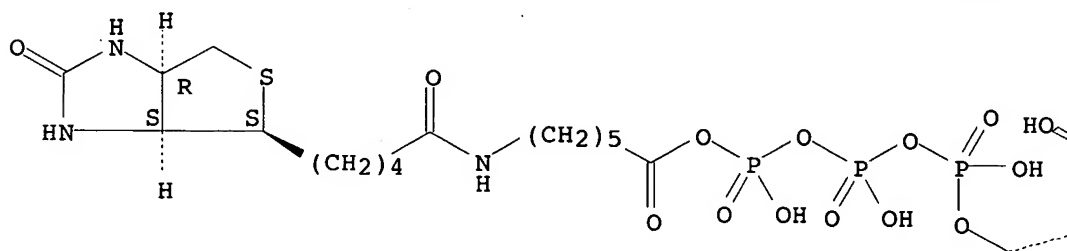
RN 773149-75-0 CAPLUS
CN Guanosine 5'-(tetrahydrogen triphosphate), P''-anhydride with
6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3)
(9CI) (CA INDEX NAME)

CM 1

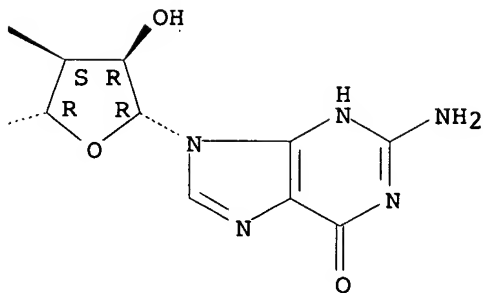
CRN 773149-74-9
CMF C26 H41 N8 O17 P3 S

Absolute stereochemistry.

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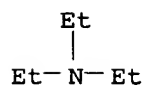


PAGE 1-B



CM 2

CRN 121-44-8
CMF C6 H15 N



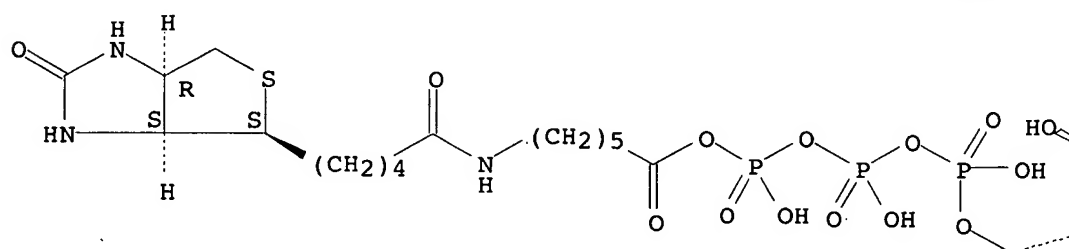
RN 773149-79-4 CAPLUS
 CN Uridine 5'-(tetrahydrogen triphosphate), P''-anhydride with
 6-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-
 oxopentyl]amino]hexanoic acid, compd. with N,N-diethylethanamine (1:3)
 (9CI) (CA INDEX NAME)

CM 1

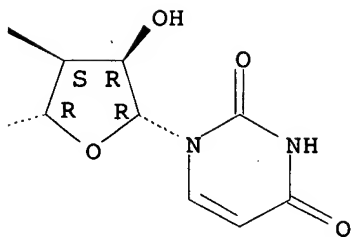
CRN 773149-78-3
 CMF C25 H40 N5 O18 P3 S

Absolute stereochemistry.

PAGE 1-A

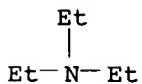


PAGE 1-B



CM 2

CRN 121-44-8
 CMF C6 H15 N



L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
 AN 1999:448706 CAPLUS
 DN 131:239288
 TI Synthesis and transmembrane transport studies of lipophilic adenosine

5'-triphosphate derivatives

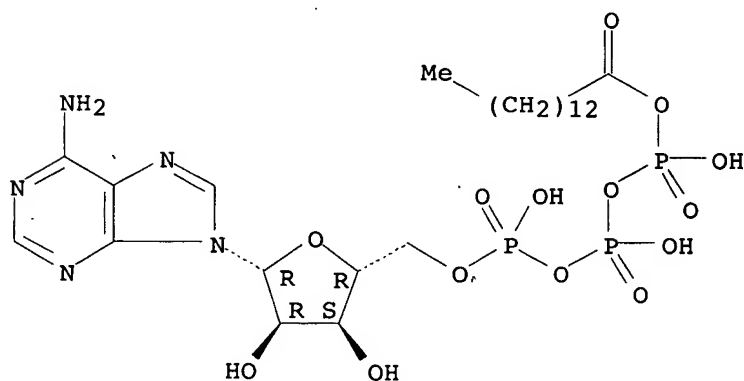
AU Kreimeyer, Annett; Andre, Francois; Bluzat, Aline; Gouyette, Catherine; Huynh-Dinh, Tam
 CS Unite de Chimie Organique, ERS 588, Institut Pasteur, Paris, F-75724, Fr.
 SO Nucleosides & Nucleotides (1999), 18(4 & 5), 995-999
 CODEN: NUNUD5; ISSN: 0732-8311
 PB Marcel Dekker, Inc.
 DT Journal
 LA English
 OS CASREACT 131:239288
 AB The preparation of acyl adenosine 5'-triphosphates as potential membrane permeable prodrugs is presented. The interaction of myristoyl- and cholesteryloxy-carbonyl-ATP with liposomes as model membranes and the release of ATP inside these vesicles was investigated using an enzymic assay as well as ³¹P-NMR spectroscopy.
 IT 185801-52-9P 244301-30-2P
 RL: BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)
 (synthesis and transmembrane transport studies of lipophilic 5'-ATP derivs.)
 RN 185801-52-9 CAPLUS
 CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with tetradecanoic acid, compd. with N,N-dibutyl-1-butanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

CRN 185801-51-8

CMF C24 H42 N5 O14 P3

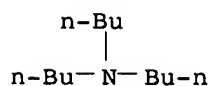
Absolute stereochemistry.



CM 2

CRN 102-82-9

CMF C12 H27 N



RN 244301-30-2 CAPLUS

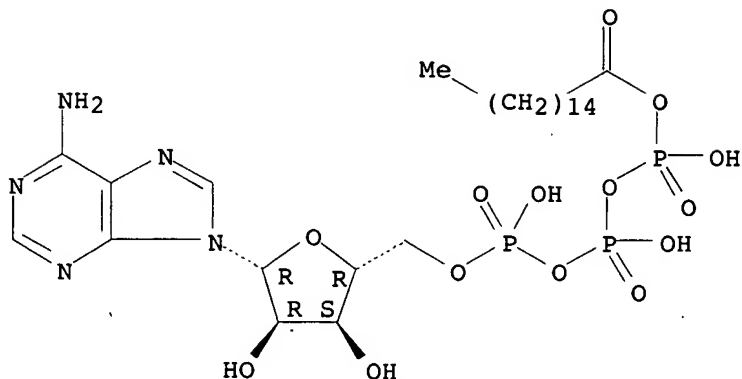
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with hexadecanoic acid, compd. with N,N-dibutyl-1-butanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

CRN 244301-29-9

CMF C26 H46 N5 O14 P3

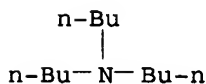
Absolute stereochemistry.



CM 2

CRN 102-82-9

CMF C12 H27 N



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1996:729938 CAPLUS
DN 126:89688
TI Synthesis of acylphosphates of purine ribonucleosides
AU Kreimeyer, Annett; Ughetto-Monfrin, Joel; Namane, Abdelkader; Huynh-Dinh, Tam
CS Unite Chimie Organique, Inst. Pasteur, Paris, 75724, Fr.
SO Tetrahedron Letters (1996), 37(48), 8739-8742
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier
DT Journal
LA English
AB Nucleotides do not penetrate cells at a sufficient rate to realize their therapeutic potential. To overcome this limitation we have envisaged acyl nucleodi(tri)phosphates (ND(T)Ps) as suitable membrane permeable prodrugs because (a) preliminary experiences have shown that these compds. are preferably cleaved at their mixed carboxylic phosphoric bond to generate the corresponding carboxylic groups, and (b) the potential modification of the acyl group allows to vary the lipophilicity of the acyl nucleotide derivative
IT 185801-52-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of purine ribonucleoside acylphosphates for potential therapeutic use)
RN 185801-52-9 CAPLUS

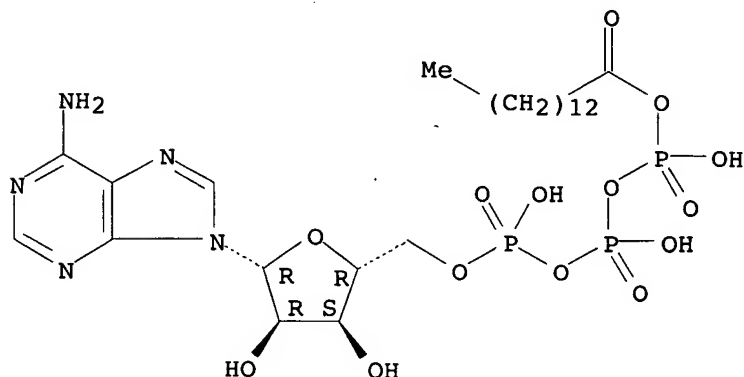
CN Adenosine 5'-(tetrahydrogen triphosphate), P''-anhydride with tetradecanoic acid, compd. with N,N-dibutyl-1-butanamine (1:3) (9CI) (CA INDEX NAME)

CM 1

CRN 185801-51-8

CMF C24 H42 N5 O14 P3

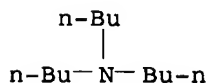
Absolute stereochemistry.



CM 2

CRN 102-82-9

CMF C12 H27 N



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2007 ACS on STN

AN 1987:473773 CAPLUS

DN 107:73773

TI The quantitation of biotinylated compounds by a solid-phase assay using a iodine-125-labeled biotin derivative

AU Smith, Peter J.; Warren, Robin M.; Von Holt, Claus

CS Res. Cent. Mol. Biol., UCT-CSIR, Rondebosch, 7700, S. Afr.

SO FEBS Letters (1987), 215(2), 305-10

CODEN: FEBLAL; ISSN: 0014-5793

DT Journal

LA English

AB The biotin analog biotinylglycyltyrosine has been synthesized and labeled to a specific activity of 2000 Ci/mmol with 125I. This analog has been used in conjunction with immobilized streptavidin in an assay which detects as little as 1 fmol biotin or biotinylated mols. in solution The determination of biotinylated insulin in a tissue extract and the quantitation

of a transcription assay are given as examples.

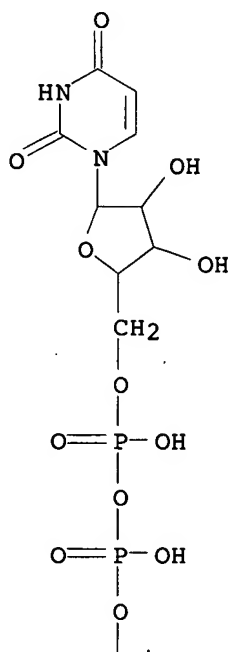
IT 109658-77-7

RL: ANT (Analyte); ANST (Analytical study)
(determination of, in RNA)

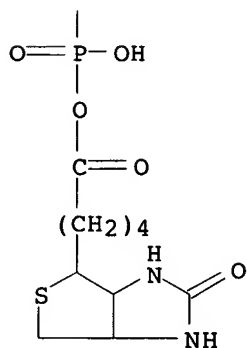
RN 109658-77-7 CAPLUS

CN Uridine 5'-(tetrahydrogen triphosphate), P''-anhydride with
hexahydro-2-oxo-1H-thieno[3,4-d]imidazole-4-pentanoic acid,
[3aS-(3a α ,4 β ,6a α)]- (9CI) (CA INDEX NAME)

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